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## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet

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of

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**ADEN**

**Complete if Known**

Application Number

09/941.947

**Filing Date**

**AUGUST 29, 2001**

**First Named Inventor**

BRZOSTOWICZ ET AL

### Group Art Unit

UNKNOW

Examiner Name

UNKNOWN

Attorney Docket Number

CL1903 US

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Substitute for form 1449A/PTO

# **INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

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Sheet 2

of 2

## **Complete if Known**

Application Number 09/941,947  
Filing Date AUGUST 29, 2001  
First Named Inventor BRZOSTOWACZ ET AL  
Group Art Unit UNKNOWN  
Examiner Name UNKNOWN  
Attorney Docket Number CL1903 US NA

## **OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS**

Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
NE		Armstrong, J. Bact. 176: pp. 4795-4802	
NE		Armstrong, Annu. Rev. Microbiol. 51: 629-659, 1997	
NE		Nelis and Leenheer, Appl. Bacteriol. 70: 181-191, 1991	
NE		Farmer, W. R. and J. C. Liao, 2001, Biotechnol. Prog. 17: 57-61	
NE		Wang, C. et al., 2000 Biotechnol. Prog. 16: 922-926	
NE		Misawa, N. and H. Shimada, 1998, J. Biotechnol. 59: 169-181	
NE		Shimada, H. et al., 1998, Appl. Environm. Microbiol. 64: 2676-2680	
NE		Miura, Y. et al., 1998, Appl. Environm. Microbiol. 64: 1226-1229	
NE		Albrecht, M. et al., 1999, Biotechnol. Lett. 21: 791-795	
NE		Lidstrom and Stirling (Annu. Rev. Microbiol. 44:27-58, 1990	
NE		Murrell et al., Arch. Microbiol., 2000, 173(5-6), 325-332	
NE		Grigoryan, E. A., Kinet. Catal., 1999, 40(3), 350-363	
NE		Beschastnyi et al., Inst. Biochem. Physiol. Microor., Pushchino, Russia, Biokhimiya (Moscow) 1992, 57(8), pp. 1215-1221	
NE		Shishkina et al., Inst. Bikhim. Fiziol. Mikroorg., Pushchino, Russia, Mikrobiologiya, 1990, 59(4), 533-8	
NE		Trotsenko et al., Studies on Phosphate metabolism in obligate methanotrophs, Fems Microbiology Reviews 87, 1990, pp. 267-272	

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Date Considered

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		Application Number	09/941,947
		Filing Date	AUGUST 29, 2001
		First Named Inventor	BRZOSTOWICZ
		Group Art Unit	1645
		Examiner Name	UNKNOWN
Sheet 2 of 2	Attorney Docket Number	CL1903 US NA	

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
me		Scolnik et al., A Table of Some Cloned Plant Genes Involved in Isoprenoid Biosynthesis, Plant Molecular Biology Reporter, New York, NY Vol. 14, No. 4, December 1996, pp. 305-319, XP000884796	<input type="checkbox"/>
me		Bartley et al., Molecular Biology of Carotenoid Biosynthesis in Plants, Annual Review of Plant Physiology and Plant Molecular Biology, Annual Reviews Inc, Vol. 45, 1994, pp. 287-301, XP000881128	<input type="checkbox"/>
me		Rohmer, Isoprenoid Biosynthesis via the Mevalonate-Independent Route, A novel Target for Antibacterial Drugs?, Progress in Drug Research, Basel, Vol. 50, 1998, pp. 135-154, XP000906878	<input type="checkbox"/>
me		Hanson et al., Methanotrophic bacteria, Microbiological Reviews, American Society for Microbiology, Washington, D.C., Vol. 60, No. 2, June 1996, pp. 439-471	<input type="checkbox"/>
me		Zhu Xufen et al., Geranylgeranyl pyrophosphate synthase encoded by the newly isolated gene GGPS8 from Arabidopsis thaliana is localized in mitochondria, Plant Molecular Biology, Nijhoff Publishers, Dordrecht, NL, Vol. 35, No. 3, 1997, pp. 331-341, XP002153683	<input type="checkbox"/>
me		Misawa et al., "Elucidation of the Erwinia Uredovora Carenoid Biosynthetic Pathway by Functional Analysis of Gene Products Expressed in Escherichia Coli", Journal of Bacteriology, Washington, D.C., Vol. 172, No. 12, December 1990, pp. 6704-6712	<input type="checkbox"/>
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Examiner Signature	<i>N. Ahmed 6/22/04</i>	Date Considered	
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Sheet 1 of 2

### Complete If Known

Application Number	09/941,947
Filing Date	AUGUST 29, 2001
First Named Inventor	BRZOSTOWICZ ET AL.
Group Art Unit	1645
Examiner Name	UNKNOWN
Attorney Docket Number	CL1903 US NA

### U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No. <sup>1</sup>	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code <sup>2</sup> (if known)				
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### FOREIGN PATENT DOCUMENTS

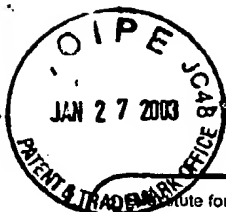
Examiner Initials *	Cite No. <sup>1</sup>	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sub>6</sub>
		Country Code <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)				
we		WO	9961652	A1	12/2/1999	University of Maryland		<input type="checkbox"/>
we		WO	0220733	A2	3/14/2002	DuPont		<input type="checkbox"/>
we		WO	9907867	A1	2/18/1999	Calgene LLC		<input type="checkbox"/>
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we		HUNDLE ET AL., Functional Assignment of Erwinia Herbicola Eh010 Carotenoid Genes Expressed in Escherichia Coli, Molecular and General Genetics, Springer Verlag, Berlin, DE, Vol. 245, 1994, pp. 406-416, XP002947192	<input type="checkbox"/>
we		PASAMONTES ET AL., Isolation and characterization of the carotenoid biosynthesis genes of Flavobacterium sp. Strain R1534, Gene: An International Journal on Genes and Genomes, Elsevier Science Publishers, Braking, GB, Vol. 185, No. 1, January 31, 1997, pp. 35-41, XP004093151	<input type="checkbox"/>
we		HARKER et al., Biosynthesis of Ketocarotenoids in transgenic cyanobacteria expressing the algal gene for beta-C-4-oxygenase, crt0, FEBS Letters, Elsevier Science Publishers, Amsterdam, NL, Vol. 404, March 1, 1997, pp. 129-134, XP002087149	<input type="checkbox"/>
we		FERNANDEZ-GONZALEZ BLANCA ET AL., A new type of asymmetrically acting beta-carotene ketolase is required for the synthesis of echinenone in the cyanobacterium Synechocystis sp. PCC 6803., Journal of Biological Chemistry Vol. 272, No. 15, 1997, pp. 9728-9733, XP002222602	<input type="checkbox"/>
we		HIRSCHBERG, Production of high-value compounds: Carotenoids and vitamin E, Current Opinion in biotechnology, London GB, Vol. 10, No. 2, April 1999, pp. 186-191, XP002162837	<input type="checkbox"/>
we		Misawa et al., Expression of an Wrwinia Phytoene Desaturase Gene not only confers Multiple Resistance to Herbicides Interfering with Carotenoid Biosynthesis but also alters Xanthophyll Metabolism in Transgenic Plants, Plant Journal, Blackwell Scientific Publications, Oxford, GB, Vol. 6, No. 4, 1994, pp. 481-489, XP002012919	<input type="checkbox"/>
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